# Food Belts 4T12 Frayless



**Main industry segments** Coffee and tea, Fruit, Pet food

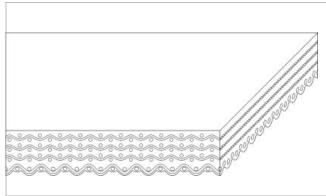
# **Applications**

Food processing/conveying belt, Z-conveyor (goose/swan neck)

# **Special features**

Abrasion resistant, Frayless edges, High transversal rigidity





Product Construction / Design	
Conveying side material	Thermoplastic polyurethane (TPU)
Conveying side surface	Glossy
Conveying side property	Non-adhesive
Conveying side color	White
Traction layer (material)	Polyester (PET)
Number of Fabrics	4
Pulley side material	Polyester (PET)
Pulley side surface	Impregnated fabric
Pulley side property	Non-adhesive
Pulley side color	White

Product characteristics	
Antistatically equipped	No
Adhesive free joining method	Yes
Flammability	No specific flammability prevention property
Food suitability, FDA conformance	Yes - Check Document of Compliance (DoC) in our Portal
Food suitability, USDA recommendations	No use intended
Food suitability, EU conformance	Yes - Check Document of Compliance (DoC) in our Portal
Other conformance/approval	Japanese Food Regulation (MHLW Notification No. 370)

# Food Belts 4T12 Frayless



Technical data				
Thickness of belt	3.0	mm	0.12	inch
Mass of belt (belt weight)	3.2	kg/m²	0.655	lb/sqft
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	16	N/mm	91	lbf/in
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	12	N/mm	69	lbf/in
Min. operating temperature admissible (continuous)	-20	°C	-4	°F
Max. operating temperature admissible (continuous)	100	°C	212	°F
Coefficient of friction (pulley side / steel driving pulley)	0.15	-		
Coefficient of friction (pulley side / driving pulley with friction cover)	0.35	-		
Coefficient of friction (pulley side / pickled steel slider bed)	0.20	-		
Coefficient of friction (pulley side / phenolic resin slider bed)	0.20	-		
Coefficient of friction (pulley side / stainless steel slider bed)	0.20	-		
Seamless manufacturing width	2000	mm	78.74	inch
On request other seamless manufacturing width	1500	mm	59	inch

### Joining related properties

Joining method		
Flexproof 10 x 80	Master joining method for standard applications	

### Link to JDS:

Joining method		Flexproof 10 x 80
Pulley diameter (minimum)	mm	125
	inch	4.92
Pulley diameter minimum with	mm	200
counter flection	inch	7.87
Admissible tensile force per unit of	N/mm	30
width	lbf/in	171
Admissible tensile force per unit of	N/mm	11
width at max. operating	lbf/in	63
temperature		
Slider bed suitable		Yes
Carrying rollers suitable		Yes
Troughed installation suitable		No
Powerturns / curved installations		No
Knife-edge (nosebar) suitable		No
Metal detector suitable		Yes

All data are approximate values under standard climatic conditions: 23°C/73°F, 50% relative humidity (DIN 50005/ISO 554). Limited representative testing based on a standard configuration is carried out to estimate minimum pulley diameters. Please contact Habasit for specific guidance regarding non-standard applications, including, but not exclusively, when profiles or cleats are used, or if the belt working temperature is close to the limits listed in this document.

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### **Chemical resistance**

Link to 'Chemical resistance information': https://rims.habasit.com

#### Mode of use or conveyance

Horizontal

#### **Calculations**

For most applications calculation is not required. Should you still need a calculation: please ask Habasit.

### Recommendation

Do not go below initial elongation (epsilon) ~ 0.3%

Protect belts from sunlight/UV-radiation/dust and dirt. Store spare belts in a cool and dry place and if possible in their original packaging. Check Link for Storage requirements:

"https://tdm.habasit.com/pds/en-us/Storage%20of%20Habasit%20material.pdf"

This product has not been tested according to ATEX standards (atmospheres with explosion risk - ATEX 95 regulation or EU directive 2014/34/EU) and therefore is subject to user's analysis in the respective environment

Group **TPU Belts** 

Sub-Group General Purpose Belts

Item number H700000180

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